

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/724,274
Source: IT EW6
Date Processed by STIC: 11-17-04

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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/724,274**

DATE: 11/17/2004
TIME: 09:39:00

Input Set : **A:\058820178NPUS01.ST25.txt**
Output Set: **N:\CRF4\11172004\J724274.raw**

3 <110> APPLICANT: Protein Design Labs, Inc.
 4 Ramakrishnan, Vanitha
 5 Powers, David
 6 Johnson, Dale E
 7 Jeffry, Ursula
 8 Bhaskar, Vinay
 10 <120> TITLE OF INVENTION: Chimeric and Humanized Antibodies to alpha5beta1 Integrin
 That
 11 Modulate Angiogenesis
 13 <130> FILE REFERENCE: 05882.0178.NPUS01
 15 <140> CURRENT APPLICATION NUMBER: 10/724,274
 16 <141> CURRENT FILING DATE: 2003-11-26
 18 <150> PRIOR APPLICATION NUMBER: 60/429,743
 19 <151> PRIOR FILING DATE: 2002-11-26
 21 <150> PRIOR APPLICATION NUMBER: 60/508,149
 22 <151> PRIOR FILING DATE: 2003-09-30
 24 <160> NUMBER OF SEQ ID NOS: 45
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 124
 30 <212> TYPE: PRT
 31 <213> ORGANISM: *mus musculus*
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 36 1 5 10 15
 39 Ser Leu Ser Ile Thr Cys Thr Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 40 20 25 30
 43 Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 44 35 40 45
 47 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 48 50 55 60
 51 Ser Arg Met Thr Ile Arg Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
 52 65 70 75 80
 55 Ile Met Asn Ser Leu Gln Thr Asp Asp Ser Ala Met Tyr Tyr Cys Ala
 56 85 90 95
 59 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Gly Asp Ala Leu Asp
 60 100 105 110
 63 Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
 64 115 120
 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 124
 69 <212> TYPE: PRT
 70 <213> ORGANISM: artificial
 72 <220> FEATURE:

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73 <223> OTHER INFORMATION: humanized antibody
 75 <400> SEQUENCE: 2
 77 Glu Val Gln Leu Val Glu Ser Gly Pro Gly Leu Val Gln Pro Gly Gly
 78 1 5 10 15
 81 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 82 20 25 30
 85 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 86 35 40 45
 89 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 90 50 55 60
 93 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
 94 65 70 75 80
 97 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys Ala
 98 85 90 95
 101 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 102 100 105 110
 105 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 106 115 120
 109 <210> SEQ ID NO: 3
 110 <211> LENGTH: 124
 111 <212> TYPE: PRT
 112 <213> ORGANISM: artificial
 114 <220> FEATURE:
 115 <223> OTHER INFORMATION: humanized antibody
 117 <400> SEQUENCE: 3
 119 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 120 1 5 10 15
 123 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 124 20 25 30
 127 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 128 35 40 45
 131 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 132 50 55 60
 135 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Val Tyr Leu
 136 65 70 75 80
 139 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 140 85 90 95
 143 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 144 100 105 110
 147 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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 151 <210> SEQ ID NO: 4
 152 <211> LENGTH: 124
 153 <212> TYPE: PRT
 154 <213> ORGANISM: artificial
 156 <220> FEATURE:
 157 <223> OTHER INFORMATION: humanized antibody
 159 <400> SEQUENCE: 4
 161 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly

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162 1 5 10 15
 165 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Thr Asp Tyr
 166 20 25 30
 169 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 170 35 40 45
 173 Ser Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 174 50 55 60
 177 Ser Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
 178 65 70 75 80
 181 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 182 85 90 95
 185 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 186 100 105 110
 189 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 190 115 120
 193 <210> SEQ ID NO: 5
 194 <211> LENGTH: 124
 195 <212> TYPE: PRT
 196 <213> ORGANISM: artificial
 198 <220> FEATURE:
 199 <223> OTHER INFORMATION: humanized antibody
 201 <400> SEQUENCE: 5
 203 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 204 1 5 10 15
 207 Ser Leu Arg Leu Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 208 20 25 30
 211 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 212 35 40 45
 215 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 216 50 55 60
 219 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
 220 65 70 75 80
 223 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 224 85 90 95
 227 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Thr Gly Asp Ala Leu Asp
 228 100 105 110
 231 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 232 115 120
 235 <210> SEQ ID NO: 6
 236 <211> LENGTH: 124
 237 <212> TYPE: PRT
 238 <213> ORGANISM: artificial
 240 <220> FEATURE:
 241 <223> OTHER INFORMATION: humanized antibody
 243 <400> SEQUENCE: 6
 245 Gln Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 246 1 5 10 15
 249 Ser Leu Arg Ile Ser Cys Ala Ile Ser Gly Phe Ser Leu Thr Asp Tyr
 250 20 25 30

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253 Gly Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu
 254 35 40 45
 257 Val Val Ile Trp Ser Asp Gly Ser Ser Thr Tyr Asn Ser Ala Leu Lys
 258 50 55 60
 261 Ser Arg Met Thr Ile Ser Lys Asp Asn Ser Lys Ser Thr Val Tyr Leu
 262 65 70 75 80
 265 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys Ala
 266 85 90 95
 269 Arg His Gly Thr Tyr Tyr Gly Met Thr Thr Gly Asp Ala Leu Asp
 270 100 105 110
 273 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 274 115 120
 277 <210> SEQ ID NO: 7
 278 <211> LENGTH: 109
 279 <212> TYPE: PRT
 280 <213> ORGANISM: mus musculus
 282 <400> SEQUENCE: 7
 284 Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly
 285 1 5 10 15
 288 Glu Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
 289 20 25 30
 292 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Asn Leu Trp
 293 35 40 45
 296 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
 297 50 55 60
 300 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu
 301 65 70 75 80
 304 Ala Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
 305 85 90 95
 308 Pro Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys Arg
 309 100 105
 312 <210> SEQ ID NO: 8
 313 <211> LENGTH: 109
 314 <212> TYPE: PRT
 315 <213> ORGANISM: artificial
 317 <220> FEATURE:
 318 <223> OTHER INFORMATION: humanized antibody
 320 <400> SEQUENCE: 8
 322 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Met Ser Ala Ser Leu Gly
 323 1 5 10 15
 326 Asp Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
 327 20 25 30
 330 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Trp
 331 35 40 45
 334 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 335 50 55 60
 338 Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Gln
 339 65 70 75 80
 342 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro

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343 85 90 95
 346 Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
 347 100 105
 350 <210> SEQ ID NO: 9
 351 <211> LENGTH: 109
 352 <212> TYPE: PRT
 353 <213> ORGANISM: artificial
 355 <220> FEATURE:
 356 <223> OTHER INFORMATION: humanized antibody
 358 <400> SEQUENCE: 9
 360 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 361 1 5 10 15
 364 Asp Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
 365 20 25 30
 368 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Trp
 369 35 40 45
 372 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 373 50 55 60
 376 Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Gln
 377 65 70 75 80
 380 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
 381 85 90 95
 384 Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
 385 100 105
 388 <210> SEQ ID NO: 10
 389 <211> LENGTH: 109
 390 <212> TYPE: PRT
 391 <213> ORGANISM: artificial
 393 <220> FEATURE:
 394 <223> OTHER INFORMATION: humanized antibody
 396 <400> SEQUENCE: 10
 398 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 399 1 5 10 15
 402 Asp Arg Val Thr Ile Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Asn
 403 20 25 30
 406 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 407 35 40 45
 410 Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser
 411 50 55 60
 414 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 415 65 70 75 80
 418 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Leu Arg Ser Pro
 419 85 90 95
 422 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 423 100 105
 426 <210> SEQ ID NO: 11
 427 <211> LENGTH: 109
 428 <212> TYPE: PRT
 429 <213> ORGANISM: artificial

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/17/2004
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Input Set : A:\058820178NPUS01.ST25.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

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Seq#: 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45

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